

FOLIO

UNIVERSITY OF ALBERTA
7 MAY 1993



INSIDE

- Chris Riedmueller: our man in Washington
- High honours for Larry Wang, Helmut Brauss
- U of A the hub for major geotechnical research project

Minister wants to examine student loan repayment system

Students Finance Board will use consultant to look at several areas

The Minister of Advanced Education and Career Development wants to identify options for improving flexibility in the student loan repayment system.

Jack Ady said that in his meetings with students across the province, one of the most important issues that was raised by students was making the student loan repayment system more flexible. That message was delivered to the Minister by the University of Alberta's Students' Union when he was on campus earlier this spring.

"During my recent visits to postsecondary institutions throughout the province, I met with students and their representatives," Ady said. "My intention was to listen and to gain a first-hand understanding of the issues."

The Minister has directed the Students Finance Board to hire a financial consultant who will examine several areas:

- the feasibility of graduated loan repayment schedules;
- the feasibility of a new financing structure for guaranteed provincial loans which would include provision for risk sharing with banks;
- the feasibility of an income contingent loan repayment program; and,
- the appropriate form of financial support to students in high-risk categories such as upgrading and short-term skills training.

Students' Union representatives at this University have advocated the establishment of some form of income contingent loan repayment scheme. Those efforts have been supported by the Board of Governors. And the Senate, on the recommendation of its Task Force on Student Finance, has urged Advanced Education to coordinate a study de-

signed to examine the feasibility of an income contingency model for handling repayment of student loans.

The Senate also recommended the Students Finance Board take account, in its policies and procedures, of the fact that there are major discrepancies in delinquency rates across the diversity of postsecondary institutions. Senators pointed out that only 6.5 percent of defaulted loans are held by university student applicants.

New Democrat Advanced Education critic Barry Pashak said the review was limited and piecemeal. "Only two of the seven student finance recommendations made by the Council of Alberta University Students in its December 1992 discussion paper and only four of the 11 Students Finance Board recommendations of the University Senate's Task Force on Student Finance are addressed in the Minister's announcement," Pashak said in the legislature.

The Minister responded that it really hasn't been that long since there was a complete review done on the student finance system. "I believe it was 1990 ... and there were some dramatic changes made to the program at that time."

In other student finance news, the legislature has given third reading to Bill 58, Students Loan Guarantee Amendment Act, 1993. The maximum outstanding principal liability limit for guaranteed provincial student loans is set in the act. The statutory loan limit was last increased in 1990 to \$250 million and will be exceeded by January 1994, the Minister explained.

Since the limit is set by statute, once it is reached the government can no longer issue



Jack Ady, Minister of Advanced Education and Career Development

certificates of eligibility for provincial student loans. It is therefore critical that the bill be approved, the Minister said. "The main principle underlying the bill is to repeal the requirement to have set in statute the maximum outstanding principal liability limit for guaranteed principal student loans."

"Instead, the bill proposes that the maximum amount of outstanding principal liability of the government at any given time be fixed by an order of the Lieutenant Governor in Council," he explained. "The proposed amendment will allow this limit to be increased as required to respond quickly to rapidly changing student needs without having to fit within the legislature timetable."

Service initiative models developed at Administrative Council Retreat

Dugas in charge of organizational development

The service initiative supports a service community whose mission is to enhance the University's capabilities in providing teaching, research and service to the community.

Enhancing those capabilities means that an operational infrastructure of administrative support will have to come to the fore. Such support includes the University's human systems, financial systems, information technology and physical facilities.

Glenn Harris, Vice-President (Finance and Administration), held an Administrative Council Retreat on 29 and 30 April to discuss the roles, activities, services and leadership behaviours required to drive the service initiative.

Participants developed and agreed to models of performance management, measurements and indicators of service, service relationships, and process effectiveness.

Recognizing the need to coordinate these commitments, Harris, in collaboration with Brian Caunt, Director, Personnel Services and Staff Relations, has enlisted the services of Roger Dugas as Manager of Organizational Development. Dugas will be re-focusing his efforts toward the development of organizations, while maintaining his responsibilities for the development of individuals.

Harris commented that he is very excited about this arrangement because he feels that it is a good example of a win-win service collaboration.

Faculty Agreement undergoes amendments

The Board of Governors and the Association of Academic Staff: University of Alberta have agreed on a number of changes to the Faculty Agreement.

AAS:UA members voted overwhelmingly in favour (95 percent) of the changes. Ballots were counted 30 April. It's the first complete review of the Faculty Agreement since 1976.

The language and clarity of the document have been improved and related clauses have been brought together. Members of the Agreement Review Committee believe the agreement is an improved document and that the substantive changes recommended respond to problems which have been identified.

The Faculty Agreement is separate from salary negotiations which are ongoing. Next week's *Folio* will have complete coverage of the substantive changes to the agreement.

Perinatal researchers want to raise the profile of their work

Researchers associated with the Perinatal Research Centre want to raise the profile of their work among their colleagues, students and the general public.

At a recent workshop titled "Creating a More Visible Future", researchers decided that they would make people more aware of their important branch of medicine by repeatedly emphasizing a single message—excellence in perinatal research—in a variety of settings.

Centre Director David Olson says perinatal research is "the best kept secret on campus," and that people need to know more about the work being conducted by researchers and clinicians associated with the Centre. "We think we have to do a good job in our public relations, because [in part] we believe the field of perinatal research is changing as rapidly as any other area in medicine," he said last week, noting that perinatal health issues affect many people's lives.

Perinatal medicine deals with the care of pregnant women, their families, their fetuses and their babies following birth.

Fully seven percent of all births are pre-term, and there are health problems associated with that phenomenon, explains Dr Olson. Furthermore, more pre-term babies are being kept alive by modern, technological methods, and, as a result, researchers need to know more about related health problems so they can deal with them more effectively.

The Centre, formerly known as the Centre for Research in Maternal, Fetal and Newborn Health, has brought together a number of researchers at four city hospitals and in a variety of U of A departments and Faculties to address various research questions in the field of perinatal medicine.

The 27 members of the Centre come from, among others, Medicine, Nursing, Obstetrics, Pediatrics, Immunology, Pathology and Physiology. People in those fields are anxious to demonstrate the importance of perinatal health research to society through a better understanding of the research itself. The Centre also wants to raise more money to support its research activities.

In fact, the Centre has developed a proposal it expects will soon make its way through the University's governing bodies. It is asking for formal recognition as a U of A perinatal research centre, base budgeting for one support staff position and money for one-time renovations.

Meanwhile, a second workshop (the first was conducted by Ginette Rodger, a public relations consultant) is planned. At the first seminar, the group began to identify the message it wanted to get out to people, Dr Olson says. The second workshop will be used to develop plans on how to do that and to determine who's going to be assigned specific tasks.

Political science student off to Canadian Embassy in Washington to work as intern

Friends and University agencies help finance trip

When he heard that the Canadian Embassy in Washington had accepted his application to work in its intern program for the summer semester '93, political science honours student Chris Riedmueller had mixed feelings.

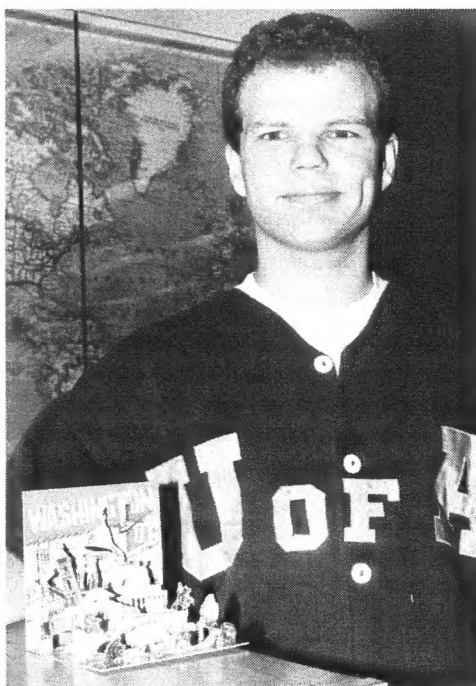
How could he pass up such a wonderful opportunity? On the other hand, how was he going to feed and clothe himself, particularly when the embassy had made it quite clear that the position was extended on a "non-remunerative basis"? (In clear language, that means he wasn't going to be paid.)

"The evening I heard I had been accepted, I was excited and depressed at the same time," recalls the Lister Hall resident. However, fellow students on the floor kicked in some money, and, with help from key people on campus, he scrambled to secure grants, small loans, bursaries and a scholarship.

"The emotional support I received from people on campus was as important as the actual financial support," says Riedmueller, who will serve as an assistant to Peter Stephens, an assistant academic relations officer in the embassy. Twelve applicants from across Canada were accepted from 150 submitted.

Riedmueller will be adjudicating applications for American students who want to study Canadian studies; filing reports on education-related activities on Capitol Hill of American and Canadian educational organizations; speaking to community organizations; accompanying Stephens to briefings; and managing the internship application process for fall '93.

"I thought this is an investment in my future, and I would have been foolish to pass it up," he says, acknowledging, however, that it will inevitably mean a heavier debt load next year as he struggles to finish his final



Political science honours student Chris Riedmueller

year in his BA (Honours) program. That will likely mean it will be necessary for him to work part-time next year.

This won't be the first time in a foreign country for Riedmueller. He was a student at Yonsei University in Seoul, South Korea, from August 1991 to June 1992, in the Education Abroad Program. And from February '88 to January '89, he was at the Colegio de los Sagrados Corazones, in Vina del Mar, Chile,

in the Interculture Canada Student Exchange Program.

Living with a family in Korea and being in Chile during the tumultuous days when power was being wrested from General Pinochet were formative experiences. "I learned that the differences between nations are trite, and those differences are not nearly as important as the similarities," he says, arguing that the important issues such as justice, obedience and what constitutes the good life are common among peoples.

"My experiences abroad helped me to moderate my political views," says Riedmueller, who freely admits he's held ideologically extreme views on a variety of political issues.

He's an enthusiastic advocate of the need for all university students to have a basic grounding in political science. "No university student should leave this campus without having an understanding of how political life functions outside the campus. But I've started to realize that I need more than a BA and experience working a part-time job at the local bar to get anything more than a full-time job at the local bar."

Accordingly, Riedmueller says once he finishes his BA, he'll likely work for a while to pay off student loans. Then, he'll consider enrolling in a master's program in political science and international law. He wants to work as a lawyer in the areas of resource management and environmental protection. Eventually, he'd like to teach in a small college.



Albert Einsiedel

Einsiedel returns as Associate Dean, Faculty of Extension

Albert Einsiedel has been reappointed Associate Dean (Planning) for the Faculty of Extension for a one-year term to 30 June 1994.

A graduate of California State University and Indiana University (PhD in Psychology), Dr Einsiedel joined the Faculty of Extension in 1982 and has served as its Associate Dean since 1990. He is the Director of the Faculty's Business Programs and has been involved in continuing professional education of public and private sector managers since 1975 with a specialization in management development and organizational behaviour.

As Associate Dean, Dr Einsiedel will provide leadership to the Faculty of Extension's development of new programming directions and initiatives, particularly as they relate to continuing education initiatives with other Faculties.

GUEST COLUMN

Performance-enhancing drugs in sport: an international problem

By Michael Wride

In February of 1993 Oral O'Gilvie announced to his U of A track and field teammates that he had tested positive for a banned performance-enhancing drug. Oral was a highly respected and talented member of the team—he had financial assistance from Sport Canada, sponsorship from a sports shoe company and had competed in the Commonwealth Games, the Pan American Games and the Olympic Games.

Why does someone who appears to have so much in his favour commit, what might be considered, the ultimate of athletic sins? The fact is that the extent of drug use in elite athletics is far wider than most people would like to believe. Oral surmised that many of his competitors were gaining an unfair advantage over him by taking these drugs, so he succumbed to the idea that if he were to gain the international success he felt he deserved he would have to join them. This course of action cannot be condoned, but it is perhaps understandable when one becomes aware of how rampant the problem is throughout the world. Indeed, Oral's case, having brought the problem to light within Edmonton, can perhaps act as a catalyst in providing us with some insight into the issues surrounding the use of these drugs.

Ben Johnson's old coach, Charlie Francis, has said that up to 80 percent of the world's top athletes use some form of performance-enhancing drug. This outlines the extent of the problem, but it also provides some hope. It implies that at least 20 percent of elite ath-

letes are achieving success without needing to resort to cheating, and that some of these must surely be medal winners and record setters in international competition.

So, who is responsible for what is such a prevailing problem of major international significance? It is easy to chastise the athletes for resorting to this kind of cheating, but the blame must also rest on the shoulders of the governing bodies of international sport. The International Olympic Committee (IOC) has been ineffective in the fight against drugs and has wasted a great deal of money, the likes of which athletes can only dream of. This money would be far better used in combating the drug problem by setting up effective drug testing programs and by funding research into detection methods for the new drugs, which continue to arrive on the scene.

Why do the world's sports leaders continue to do nothing? They do nothing because drugs can mean world records, which mean TV coverage, which means sponsors, which mean money! It is impossible for the Olympic movement to survive without the huge input of cash provided by its corporate sponsors and the TV networks. These companies provide the public with what it wants to see—gold medal winning performances in world record times. The public cries "More! More! More!" and TV fills their plates in an attempt to satiate them.

The governing bodies of international sport need a complete overhaul. They, along with the corporate sponsors and TV net-

works, need to be convinced that drug-fueled competition is not what the public wants to see. The views of the general public must therefore be changed. They must be made to recognize that competing in international competition is in itself exceptional. Many of the athletes, having competed drug free, will return home from their competitions satisfied that they did the best they could. They may not have broken world records or won gold medals, but it is these athletes who keep the Olympic dream alive. It is these athletes who need the support of the public the most.

The problem of performance-enhancing drugs in sport is one that is extremely complex. All athletes who love sport, who want to see a return to fundamentals, must demand reform at all levels. It will not be easy, but it must be done. Clean athletes have to state their right to drug-free competition over and over again. They must demand that the governing bodies do their utmost to remove drugs from sport—sport that, after all, not only belongs to the athletes, but also to its followers throughout the world. Therefore, as members of the international community here at the University of Alberta, we also have the right to demand drug-free sport—sport in which it will be an honour to see our children compete—sport in which a spirit of true international harmony exists—sport which should be free of drugs and corruption.

Ed. note: Michael Wride is a graduate student in the Department of Physiology and a member of the U of A track and field team.

FOLIO

Volume 30 Number 34

OFFICE OF PUBLIC AFFAIRS,
423 ATHABASCA HALL
UNIVERSITY OF ALBERTA, EDMONTON,
ALBERTA T6G 2E8
TEL: (403) 492-2325 FAX: 492-2997
PROFS - ZZOPA

All enquiries and correspondence should be directed to:
RON THOMAS: EDITOR
MICHAEL ROBB: ASSISTANT EDITOR

Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.

DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. **Classified advertisements:** 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 30 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be reprinted with acknowledgment.

ISSN 0015-5764 Copyright 1993



**University
of
Alberta**



General Faculties Council meeting

GFC's next meeting is scheduled for **Monday, 10 May, at 2 pm** in the University Hall Council Chamber.

- 1) Approval of the Agenda
- 2) Approval of the Minutes of 29 March 1993
- 3) Question Period
- 4) Oral Report from the President
- 5) New Members of GFC
- Reports*
- 6) Executive Committee Reports
 - 6.1 Summary of Meeting of 19 April 1993
 - 6.2 Summary of Meeting of 3 May 1993
- 7) Report of the Board of Governors
 - 7.1 Report of 2 April 1993
 - 7.2 Report of 7 May 1993
- 8) Report of the Nominating Committee
- 9) Written Questions on Reports
 - 9.1 Occupational Health and Safety Policies and Environmental Issues Committee: Questions from P Matilainen

New Business

Note: The following item was discussed by the GFC Executive Committee on 3 May and will go forward to GFC on 10 May:

- Strategic Planning Task Force Draft

Report: *Degrees of Freedom*

Reports

- A) GFC Library Committee Annual Report 1991-92
- B) Council on Student Life: 1992 Annual Report

Information session for staff

Topic: "Telecommunications Technology as a Tool." Date: Friday, 14 May. Time: 1:30 to 3:30 pm. Location: 2-115 Education North.

Presenters: Sharon Wastle and Katie Campbell-Bonar. Fee: There is no registration fee, but those interested in attending are asked to register by 10 May. (The session is open to all staff; call 492-2796 to register.)

Topics to be discussed are: distance education, audio teleconferencing, desktop video conferencing, Centrex automatic call distribution, voice processing, and telecommuting.

Canadian Federation of University Women Spring Banquet

The annual Spring Banquet of CFUW-Edmonton will be held in the Saskatchewan Room of the Faculty Club on 17 May (no-host bar at 6:30 pm, dinner at 7:30). Tickets are \$26 and can be obtained from Catherine Dunik, 430-8197.

All women university graduates are welcome.

Lactic Acid Bacteria Research in Canada

Agriculture Canada, in association with the University's Department of Food Science and Nutrition, has organized a workshop on lactic acid bacteria research. The workshop will be held 23 to 25 June in L-1 or L-3 Humanities Centre (unless otherwise indicated). Organizers are G Gordon Greer and Michael Stiles; Workshop Chair is G Gordon Greer. The workshop is supported by the Canadian Agricultural Research Council.

Larry Wang elected to Royal Society of Canada

Larry Wang, Professor of Zoology, has been elected to Fellowship in the Royal Society of Canada. He will be inducted into the Society in June.

The Royal Society citation refers to Dr Wang as a world leader in research on regulation of metabolism in mammals. "Dr Wang has discovered unique physiological mechanisms used by hibernating mammals to survive near freezing body temperatures. He has identified the physiological bottlenecks governing heat production in mammals exposed to cold. These bottlenecks can be circumvented by a specific combination of natural food stuffs, that block the effects of endogenous metabolic inhibitors, at the same time as helping to utilize one's own fat reserves. Dr Wang has marketed this combination of food stuffs as the 'Canadian Cold Buster.'"

First marketed in December 1991, the Cold Buster quickly made a name for itself and its inventor. Its benefits to the public have been widely recognized, including the incident where a dogsledder, travelling in sub-zero temperatures, fell into the North Saskatchewan River. However, after eating two Cold Busters, he was able to walk some 2,000 metres to shelter while losing only 0.2 of his body temperature.

In June 1992, the Canadian Institute of Food Science and Technology awarded its highest honour (the Gordon Royal Maybee Award) to the bar as the outstanding new product development in Canada.

Warren Veale, of the University of Calgary, who nominated Dr Wang for fellowship in the Royal Society, said "the extreme breadth and depth of Dr Wang's studies in hibernation has propelled him into the international leadership position in this field."

Other accomplishments of Dr Wang's, as outlined by Dr Veale, are:

- He was the first invited keynote speaker for the last two international symposium on



Larry Wang and his research team spent 16 years perfecting the Canadian Cold Buster.

mammalian hibernation (US, 1985; France, 1989) and will again take on that role this year in the US).

- The American Physiological Society has invited him to write the chapter on mammalian hibernation for the new edition of *Handbook of Physiology*.

- He has received one patent, edited four books, authored more than 100 original and review papers, and been invited to lecture at more than 40 universities and institutes in a dozen countries. He has also made a documentary film with the BBC on mammalian hibernation.

Dr Wang is particularly recognized for his ability to communicate his science to lay people, high school students, and other professionals in different disciplines (for example, people in the medical community).

He was recently awarded the inaugural Killam Annual Professorship at the University of Alberta, an (Alberta) Immigration Achievement Award and an Alberta Science and Technology Leadership Award.

Dr Wang's induction into the Royal Society will bring to 58 the number of Royal Society Fellows who are on the faculty of the University of Alberta.

Killam Annual Professor Helmut Brauss combines teaching with concert performances

Besides being a Professor of Music at the University of Alberta, Helmut Brauss is also an internationally known pianist. Having performed on three continents—North America, Asia and Europe—he brings a wealth of knowledge and experience to his classes.

Professor Brauss, the recipient of a 1993 Killam Annual Professorship, was born in Milano, and is both a German and a Canadian citizen. He began taking piano lessons in 1938 and studied for nearly 20 years in Europe. Professor Brauss taught piano at the University of Saskatchewan from 1966 until 1969 before joining the University of Alberta.

Throughout the years he has balanced teaching and an international career as a concert pianist. Professor Brauss' teaching is largely one-to-one individual instruction in piano at the undergraduate level. As a performer, he gives 15 to 20 concerts annually. He has played on numerous occasions with such groups as the Edmonton Symphony Orchestra, the Bremen Philharmonic Orchestra, Saskatchewan Festival Orchestra, CBC Winnipeg Orchestra, and the CBC Vancouver Orchestra. Within the last decade, Professor Brauss has given a number of concerts in Japan, Hong Kong, China and Korea, usually in conjunction with his appointment as Guest Professor at the Musashino Ongaku Daigaku in Tokyo.

Writing is proving to be another avenue of artistic expression for Professor Brauss: his

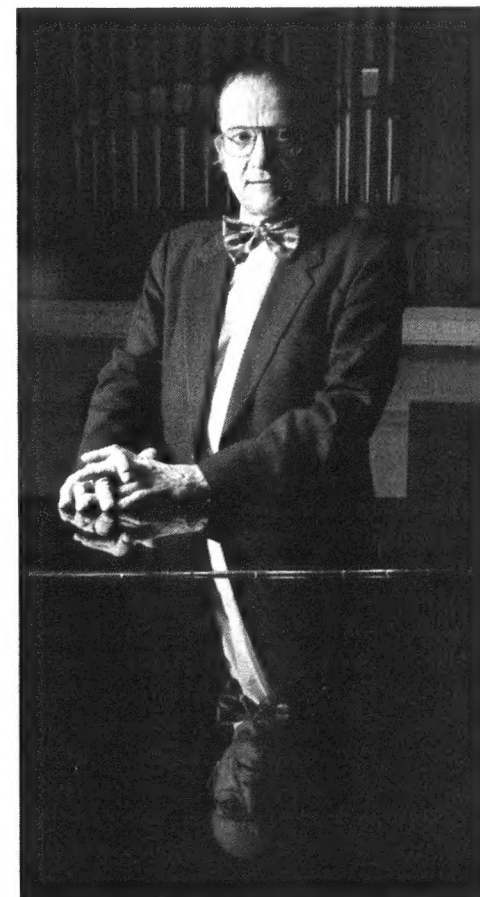
book, *Max Reger's Music for Solo Piano*, will soon be published by the Alberta University Press.

Professor Brauss recently initiated a new program in applied music designed specifically for students from Pacific Rim countries. Two students from Hiroshima and Seoul are enrolled this year. And he negotiated with the ESO to have DMus candidates solo with the orchestra in fulfillment of one of their performance requirements.

"Although highly specialized in one field," Professor Brauss says, "I see myself as a universalist guiding a human being's growth towards an integrated musical personality, rather than concentrating solely on training of specific artistic skills. I believe that my experience as a concert artist has helped me to stay focused on that specific goal."

The founder of the Music Department's "Exploration Series" (now called the "Encounters Series"), Professor Brauss also helped secure the Siemens Scholarship Fund of \$50,000 for the development of the String Division in the Department of Music.

Internationally, he arranged an eight-concert tour of Japan for the University of Alberta String Quartet and initiated contacts between the University and the Conservatory in Xian, China. This resulted in Professor Brauss giving a concert, masterclass, and lecture in Xian.



Helmut Brauss, a 1993 Killam Annual Professor

WORKERS' COMPENSATION COVERAGE FOR STUDENTS

The following information was submitted to Folio by the Office of Pension and Benefits Administration.

It was recently brought to the attention of the University's Committee on Occupational Health and Safety Policies and Environmental Issues that it is not widely known that students are covered by the Workers' Compensation Board.

Students who receive payment from the University, such as graduate student teaching assistants, are covered under the University's WCB contract. But other students are also covered, under a special account maintained through Alberta Advanced Education and Career Development.

What does this coverage mean to students, and why should they report accidents?

One normally associates WCB coverage with the payment of lost earnings resulting from a work-related injury. And since most students are not earning while they learn, this benefit may not apply. However:

- an injury on one "job" may affect earnings on another. For students working part-time to support themselves, this can be very significant.
- the results of an injury can produce an impact over an extended period of time. This could, for example, impact the potential summer earnings of a student injured during the September-April period.
- certain non-injury losses may also be insurable, such as damage to eyeglasses or clothing.

- medical costs are also covered, for example, dental bills, physiotherapy, prescriptions, etc.

For these reasons it is important for their own protection that students report accidents on WCB forms. These forms can be obtained from the students' Departmental or Faculty offices and should be completed and returned to the Office of Pension and Benefits Administration, 302 Assiniboia Hall.

Even when an accident seems relatively "minor" and produces no lost time beyond the day of the accident, it should still be reported, in order to document the injury in the event of future complications.

It should be noted that the Graduate Student Disability Plan was recently reviewed. The review indicated that the cost of the plan could not be justified when compared to the number and amount of claims paid. Therefore, the Graduate Student Disability Plan is no longer in effect.

The University believes that the coverage under the WCB provides a satisfactory level of coverage for our students.

FACULTY DEVELOPMENT COURSES

University of Alberta faculty are invited to take part in the Northern Alberta Institute of Technology's In-Service III program, 21 May to 19 June. NAIT has prepared a calendar of training workshops, a number of which are open to non-NAIT staff, says Bill Isley, manager of Staff Training and Development at NAIT. Some of the workshops will be provided at no charge and others will have fees. Full details may be obtained by calling Ady Dedich at 471-7023. Dedich is also handling registration.

One of FAB's most popular annual shows is back I.D.E.A.S. as varied and innovative as ever

It's back! I.D.E.A.S., the annual University of Alberta Industrial Design Exhibition, is on at FAB Gallery until 23 May.

According to Art and Design Professor Bruce Bentz, "This year the work is probably more varied than it has been in the past, and I think the [industrial design] students' interests and personalities are embodied in these designs."

The show features more than 50 industrial design students' work, primarily at the undergraduate level, although some graduate students' work is also on display. It includes lamps, chairs, mirrors, conceptional studies projects, and a variety of other industrial design projects.

"It is true that the public sometimes doesn't know how to deal with some of this work, because almost all of it is experimental, and therefore out of the ordinary," says Professor Bentz. "It's not what you'd find in the local department store. And that's not a problem for us, because we invite students to be experimental."

"By making their own design decisions, students can be their own best critics. We push them to try different things and not to play it safe—even at the risk of not succeeding. They learn an awful lot more by taking chances." And indeed, many students challenge conventional design wisdom.

The I.D.E.A.S. show is an opportunity for the public to see some of the industrial design



Art and Design Professor Bruce Bentz relaxes at FAB Gallery in one of the chairs designed by an industrial design student.

students' projects. Not all students who show in the annual event are majoring in industrial design. This year, two panels are included to show some former students' work in the commercial world. The contributions made by

industrial design students to the hybrid electric vehicle project are also on display.

The exhibition was opened 20 April by Minister of Advanced Education and Career Development Jack Ady.

Elks' grant to benefit children who stutter

Sketches of elk adorned the walls at the 30 April dedication ceremony of the new Elks Clinic Room for Children's Therapy at the Institute for Stuttering Treatment and Research. The impressions of elk were an expression of thanks by the Institute's young clients to the organization whose financial support will enable the Institute to expand its children's services.

Einer Boberg, Professor of Speech Pathology and Audiology and Executive Director of the Institute, said the new grant of \$17,500 from the Elks and Royal Purple and their national charity the Elks Purple Cross Fund will help provide speech therapy for many children in need. Dr Boberg paid tribute to the organization for its ongoing support of the Institute since its inception in 1986.

Helping children in need and making a difference in their lives is one of the goals of our organization, said Florence Kunz, Supreme Conductress of the Royal Purple of Canada, as she presented a plaque to the Institute. Other speakers at the dedication ceremony were Lois Stanford, Vice-President (Student and Academic Services), Marilyn Langevin, Acting Clinical Director of the Institute, and Ginger Shaw, the newly designated Elks Clinician. A video clip showed examples of the remarkable improvement in children's speech after a few months of assistance at the Institute.

The Institute is a nonprofit organization affiliated with, but not funded by, the University of Alberta. The unique cooperation between the University and the Elks has provided assistance to some 500 stutterers of all ages during the past six years.

SPECTRUM adds to its medal collection

SPECTRUM's effectiveness as an internal audience newsletter has again been recognized by CASE (Council for the Advancement and Support of Education).

This time it's a Silver Medal in the Recognition Program 1993 sponsored by the Washington, D.C.-based organization.

Since its inception in spring 1989, SPECTRUM has been awarded four medals by CASE, including a gold in 1990 in the CASE District VIII Newsletter category. Last year, SPECTRUM was named Best Special Publica-

tion by the Canadian Council for the Advancement of Education.

CASE judges reviewed 44 entries in the Internal Audience Newsletter category, and saw fit to award no Gold Medals, one Silver Medal and two Bronze Medals.

SPECTRUM is published twice a year. The writing and editing are done by freelancer Connie Bryson and Anne Le Rougetel (Public Affairs), respectively; the designer is Debra Bachman (Public Affairs), and the photographer is Dick Woolner (Photo Services).



Louise Asselstine

ARTS VISITING COMMITTEE BENEFITS FROM ALUMNAE VITALITY

Jean McBean, left, Margaret Skelley, centre, and Elaine McCoy recently returned to their alma mater as members of the 1993 Visiting Committee to the Faculty of Arts. McBean, who practises family law in Edmonton; Skelley, president of the Junior League of Edmonton; and McCoy, who has held three ministerial portfolios in the Government of Alberta, are all alumnae of the Faculty of Arts. They got together at the pre-dinner reception.

AOSTRA award winner donates prize money for creation of scholarship

Bill Taciuk, the recipient of the 1993 Karl A Clark Distinguished Service Award, has donated the monetary facet of the award—\$10,000—to the Faculty of Engineering for the creation of an annual scholarship in Mining, Metallurgical and Petroleum Engineering.

Taciuk, who earned a BSc in Electrical Engineering at this University in 1954, said "there's nothing very mystical about it [the donation]." He indicated that he preferred the scholarship to be in the Department of Mining, Metallurgical and Petroleum Engineering because a good deal of the curriculum is oil sands-related.

Taciuk also said he has a lot of fond memories of the U of A, but that he has had little contact with the Faculty since graduation. (He lived in eastern Canada for 21 years before returning to Calgary in 1974.)

Bob Busch, Associate Vice President (Research), called Taciuk's donation "a very generous act" and said he is glad to see that "someone from the University of Alberta has made a difference."

Taciuk won the Karl Clark Award for his invention and development (over some 18 years) of the AOSTRA Taciuk Process (ATP) for the commercial production of bitumen from the Athabasca Oil Sands. ATP is a direct thermal processor that's used for simultaneous extraction and primary upgrading of bitumen.



Bill Taciuk, centre, AOSTRA Chairman and CEO Bill Yurko, left, and Associate Vice-President (Research) Bob Busch. Taciuk, who visited campus 16 April, is executive vice-president of UMATAC Industrial Processes, a division of the UMA Group.

Verne Plitt, Associate Dean (Student Services), Faculty of Engineering, said the Faculty appreciates that Taciuk decided to remember his alma mater. "Engineering has a number of

awards, but we still have a lot of good students that we can't encourage by means of an award," Dr Plitt said.

Student Mentoring Program now called Occupation Information Sharing Program

The Student Mentoring Program, introduced last year by the Office of Alumni Affairs, has had its name changed to the Occupation Information Sharing Program. The purpose of the program—to bring students and professionals together for an exchange of career information—remains the same.

The program has moved from Alumni Affairs to Career and Placement Services (CaPS). CaPS will work with professionals who volunteer their time and students to help bring about favourable interaction. As well, a CaPS counsellor will meet with students before giving them access to the program's registry of professionals.

Participants are asked to spend a minimum of 45 minutes meeting with individual students and can ask that their name be removed from the registry at any time.

Alumni willing to take part in the Occupation Information Sharing Program are invited to call CaPS at 492-4291.

Major geotechnical research project will be based at the U of A

Key players include NSERC, other universities, companies and utilities

Many hydroelectric dams are either built on sand deposits, or partially constructed with sand. Many hydroelectric dams in British Columbia, for example, are constructed on top of sand deposits.

The mining industry—a multi-billion dollar industry in this country—also uses sand to construct tailing ponds. Usually constructed out of the tailings themselves, the ponds are used to contain fine silt, sand and water.

"These are massive structures made of sand," says Civil Engineering Professor Peter Robertson.

However, if sand is very loose and loaded quickly, so that the water inside the pore spaces can't get out quickly enough, then the structure of the sand can actually collapse. "The sand can liquefy ... and a large amount of its strength can be lost," said Dr Robertson, who is the principal investigator of a project designed to understand better the behaviour of loose sand deposits.

Major players in the mining and utilities sectors of the economy have backed the project. The Natural Sciences and Engineering Research Council has committed \$310,000 a year for three years. Industry participants, including Syncrude, Suncor, BC Hydro, Quebec Hydro and Canadian geotechnical consultants Kohn Leonoff, HBT Agra, Golder Associates and Thurber Engineering, are contributing an equal amount of in-kind or financial assistance. Total funding amounts to \$1.8 million over the three years. And expertise is also being drawn from the Universities of Laval, Carleton, Sherbrooke and British Columbia.

"Our ability as geotechnical engineers to understand natural or man-made sand through various testing techniques, to determine whether loose sands will lose their strength, is not very good. And that's where the research comes in," explains Dr Robertson. The tailing ponds, utility dams, and structures built on sand in earthquake-prone areas are huge—and therefore the risks are huge. BC

Hydro, for example, is re-evaluating some of its dams to determine how they'll stand up in the event of earthquakes.

"Most people look at the soil and think of it as dirt. It's all the same thing to them. But, in fact, in the area of geotechnical engineering, the ground is quite complex, because mother nature has created this highly variable material. It's not solid. It's made of particles with void spaces between them. And those void spaces are typically full of water.

"There's an interaction between the water pressure and the soil grain. Hence, the analogy with quicksand. Quicksand becomes quick only because the water is flowing and creating larger pressures ... moving the grains apart."

Engineers have developed reliable testing methods for materials such as clay and rock, but anyone who has picked up a handful of sand knows it simply falls through the fingers. How do you get intact samples of sandy soils? Over the years, engineers have developed techniques to probe the ground.

"Traditionally, in North America there's been a rather crude, dynamic test whereby you hammer a sampler into the ground," Dr Robertson says. "The number of blows it takes to hammer it in is an indication of how strong the sample is." That standard penetration test is used extensively around the world.

These empirical tests are not always adequate when applied to testing major structures built on, or, in part, with sand. They're often overly conservative, says Dr Robertson, who over the last decade has been involved in developing various types of field testing procedures. "We've developed fairly sophisticated probes that can be pushed into the ground and can tell us what's there and how strong it is." Those can give continuous readings of resistance and water pressures. Methods using sensors on the surface have also been developed.

This work in the field, complementary laboratory testing and the lessons learned from the construction of the sand islands in the

Beaufort Sea all helped to catapult this country into the research lead. But when the former UBC professor came to the U of A, he and co-investigators Norbert Morgenstern and David Sego (Civil Engineering) decided to pull together the expertise in Canada within the industrial and university sectors to help address the yet-unanswered questions.

The goal is to develop reliable ways of identifying when sands could and could not collapse. That would help industry to design new structures and evaluate old structures. Two test sites, one in Fort McMurray on Syncrude's tailing pond, and another likely in the lower mainland of BC, will be used.

"We'll freeze a column of sand and then core the frozen sand [to get undisturbed samples]," Dr Robertson outlines. Conventional sampling and testing and the more modern, in-situ testing will be done. "We'll test the undisturbed samples in the lab and relate how they truly behave to the way the probes and in-situ tests predict that they behave."

The principal investigator is hopeful the collaborative approach will result in a greater degree of agreement on the results among the players. "Technology transfer to industry is immediate. The hope is that people in the mining industry will be able to improve the design of their tailing ponds as well as evaluating the stability of existing structures."

PhD students in the various universities working on the research project will, ultimately, be able to market their skills internationally. "Canadian engineers are already highly regarded in this area and sell their expertise around the world—particularly in the areas of mining and hydroelectric dam construction."

The provinces of Quebec and Ontario have numerous hydroelectric dams and tailing ponds. In 1988, however, the Saguenay earthquake sent shock waves not only across the land, but through the geotechnical engineering community. "That earthquake was

quite influential in convincing eastern Canadians that liquefaction is an important issue.

"Liquefaction has traditionally been thought of as an earthquake-related issue, although we now know that we don't have to have earthquakes to trigger liquefaction," Dr Robertson says, noting that although Ontario is not particularly vulnerable to earthquakes, people in the mining industry are much more aware that other mechanisms could trigger the collapse of some of these structures.

There's also an environmental dimension. "There's a greater awareness that we're going to be leaving these tailing ponds [when a mine abandons a site] and the public wants some assurances that they're okay. Because of the pressure from the public, the mining industry is becoming more aware of its longer-term obligations."

Information session will shed light on new CaPS/Aid Centre program

An information session will be held 12 May to explain the newly established Financial Need Student Employment Program.

The program, which has been developed by Career and Placement Services and the Student Financial Aid and Information Centre, has some funding to employ students on campus who have been identified as being in financial need, and will be piloted in the 1993-94 academic year.

All university academic, administrative and support units are eligible to apply for funding under the Financial Need Student Employment Program.

Everyone is welcome at the information session, which will be held at 10 am in 239 Central Academic Building.

Four professors cited for service to society

University of Alberta Professors Robert Elliott (Statistics and Applied Probability), Henry Janzen (Educational Psychology), Tony Noujaim (Pharmacy), and Peter Pang (Physiology) were presented with Immigration Achievement Awards last night.

The awards ceremony, at the Fantasyland Hotel, was held as part of Immigration Week in Alberta, 3 to 9 May. The awards are sponsored by the Edmonton Immigration Week Committee and the Province of Alberta and recognize Albertans who have a) chosen to make Canada their home and have made outstanding contributions to society, and b) made significant contributions to the development of immigration in Alberta.

Dr Elliott's award is in the Sciences category; Dr Janzen was recognized in the Recreation/Lifestyles category; Drs Noujaim and Pang were honoured in Business, Research and Development and Academic/Education, respectively.

Dr Elliott has been a Professor of Statistics and Applied Probability at the U of A since 1986; his work is in signal and image processing and in applications of random processes in finance. Between 1977 and 1985 he held visiting positions at this University, the University of Kentucky and Brown University. He held the GF Grant Chair of Mathematics at the University of Hull, England, from 1973 to 1986, and he was Head of the department from 1976.

Dr Janzen is Director of the Testing Centre, Clinical Services Division, Faculty of Education. He works with children and adults who have educational problems, in particular, his interests lie in learning disabilities, depression in children and adults and problem solving and relationship building among adults. In addition to his work at the University, Dr Janzen makes weekly visits to Maskwachees College in Hobbema where he works with both children and adults.

He and colleague John Paterson co-host C/JCA radio's open line show "That's Living."

Dr Noujaim, now Professor Emeritus of Pharmacy, was born in Egypt and educated in the United States. He came to the University of Alberta in 1966, eventually becoming a leading researcher at Biomira Inc, a University spinoff company. The firm's largest research program concerns in vivo (in the body)

cancer diagnostics under Dr Noujaim's direction. His group has developed tumor-specific antibodies which bind to tumor cells. By attaching radioactive labels to the antibodies and injecting them into a patient, it's possible to scan the patient and determine the size and location of the tumor.

Dr Pang, who is both Professor and Chair of the Department of Physiology, is conducting research into the cause of high blood pressure. CV Technologies Inc, a company he founded, is developing antihypertensives and modern pharmaceuticals from derivatives of herbal compounds. The company has a licensing agreement with the U of A and it is collaborating with prominent laboratories in the People's Republic of China, Taiwan and Hong Kong.

Last February, Dr Pang and CV Technologies were awarded a grant of \$3 million (over

two years) by Miles Canada Inc to do cardiovascular research.

Dr Pang, who earned his DSc degree at the University of Hong Kong, is Honorary Professor at several universities in China.

Sponsors of Immigration Week events in Edmonton include Alberta Career Development and Employment, Edmonton Multicultural Society, Edmonton Public School Board, Edmonton Separate School Board, Employment and Immigration Canada, Northern Alberta Heritage Language Association, and the University of Alberta.

Another facet of the University's involvement was the holding (4 May, SUB) of a Science/Research Fair which exhibited some of the work of U of A scholars who have chosen to make Canada their home.

FEWER *FOLIO*'S DURING SUMMER

Folio will publish on the following dates: 14 May, 4 and 25 June, 30 July and 27 August. The issue of 4 June will contain Convocation news; the issue on 27 August marks the resumption of *Folio*'s weekly publishing schedule.

Deadlines are: 3 pm Friday (one week before desired publication date) for display and classified advertisements; 9 am (three weeks in advance of event) for notice of coming events.

TALKS



ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

11 May, 4 pm

Christopher WM Grant, professor, Department of Biochemistry, University of Western Ontario, "Oligosaccharide Conformation at the Membrane Surface via Wideline NMR Spectroscopy." 4-70 Medical Sciences Building.

12 May, 11 am

R Nath, professor, Department of Biochemistry, Postgraduate Institute of Medical Education and Research, Chandigarh, India, "Physiological Role and Clinical Significance of Metallothionein with Special Reference to Cadmium." 2F1.01 Mackenzie Health Sciences Centre.

ANATOMY AND CELL BIOLOGY

7 May, noon

SK Maheswaran, Department of Anatomy, University of Sydney, Australia, "Different Approaches to Problem Based Learning." 5-10 Medical Sciences Building.

BIOETHICS CENTRE

7 May, 12:30 pm

C Anthony Ryan, neonatologist, Royal Alexandra Hospital, and Ross Boyle, perinatal clinical specialist, University of Alberta Hospitals, "Resolving Ethical Issues in Pediatrics—A Model of Moral Reasoning." 2F1.04 Mackenzie Health Sciences Centre.

CAMPUS PRESBYTERIAN COMMUNITY

14 May, 7 pm

"Bridging the Gap: A Forum on Working Towards a Cohesive Christian Community." Panel: Ronda Bosch, Student Life Director, The King's College; David Kilgour, Member of Parliament, Edmonton Southeast; Eric McCuaig, Member, University Senate; Sheila Soder, Chairperson, Synod Youth Executive; Derek McLeod, Student and Lay Missionary; Rev John Rhoad, Minister and Chairperson, Chaplaincy Support Committee. Tentative: Ted Roberts, Director of Medicine, University of Alberta Hospitals; Jan Vallance, Professor of Education, University of Alberta. Moderator: Colin Penman, Convenor, Synod Youth Ministry Committee. Information: Pauline Grant, Chaplain, 492-7524. L-1 Humanities Centre.

CHEMISTRY

The Fraser W Birss Memorial Lectures. Vedene H Smith, Department of Chemistry, Queen's University, will give the following lectures under the general title, "Description of Electronic Structure by Density Matrices from Theory and Experiment."

10 May, 11 am

"Quantum Chemistry in Momentum Space." V-107 V-Wing.

11 May, 11 am

"Reconstruction of the Density Matrix From Experiment and the Interpretation of Chemical Bonding Therein." V-107 V-Wing.

12 May, 11 am

"Electron Pair Distributions, Electron Correlation and Chemical Bonding." V-107 V-Wing.

28 May, 11 am

Juan J Perez, Computational Pharmacology Division, Molecular Research Institute, Palo Alto, California, "An Antigenic Loop of a Virus and Opiate Peptides: Two Examples of Computational Conformational Exploration." E3-25 Chemistry Building.

COMPUTING SCIENCE

10 May, 3:30 pm

Wayne D Gover, "Recent Results on Self-Healing Networks." 619 General Services Building.

FINANCE AND MANAGEMENT SCIENCE

Princeton Developments Ltd Distinguished Lectures in Finance.

12 May, 3:30 pm

Stephen A Jarislowsky, chairman and CEO, Jarislowsky, Fraser and Company Ltd. RSVP: 492-2457. 2nd Floor, Faculty Club.

LIPID AND LIPOPROTEIN RESEARCH GROUP

17 May, 1:30 pm

Alan Attie, Departments of Biochemistry and Comparative Biosciences, University of Wisconsin-Madison, "New Insights into Lipoproteins from Studies in Mutant Chickens and Insect Larvae." Westridge Park Lodge, Devon.

18 May, 1:30 pm

Denis McGarry, Department of Internal Medicine, University of Texas, Southwestern

Medical Center, Dallas, "Probing the Mysteries of the Carnitine Palmitoyltransferase Enzyme System." Westridge Park Lodge, Devon.

MERCK-FROSST CANADA DISTINGUISHED LECTURER

10 May, 9 am

Karl H Weisgraber, senior scientist and associate director, Gladstone Institute of Cardiovascular Disease, University of California, San Francisco, "Apolipoprotein E: Structure-Function." 2J4.02 Mackenzie Health Sciences Centre.

NURSING

17 May, 4 pm

Mary A Alexander, professor emeritus, College of Nursing, University of Arizona, "A Global Perspective of Nursing." Bernard Snell Hall, Mackenzie Health Sciences Centre.

OPHTHALMOLOGY

7 May, 8 am

Ray Buncic, Department of Ophthalmology, Hospital for Sick Children, Toronto, "Optic Neuritis in Childhood." 2J4.02 Mackenzie Health Sciences Centre.

PERINATAL RESEARCH CENTRE

11 May, noon

Maria Garcia-Lioret, "The Immune Role of the Placenta." 2J4.02 Mackenzie Health Sciences Centre.

18 May, noon

Rick Schulz, "Beneficial and Detrimental Roles of Nitric Oxide in the Heart and Blood Vessels." 2J4.02 Mackenzie Health Sciences Centre.

25 May, noon

Anila Verma, "Gestational Diabetes and Fetal Macrosomia." 2J4.02 Mackenzie Health Sciences Centre.

PHARMACY AND PHARMACEUTICAL SCIENCES

7 May, 3 pm

Roger Williams, director, Office of Generic Drugs, Department of Health and Human Services, Rockville, Maryland, "Bioequivalence: Current and Future Approaches." 6069 Dentistry-Pharmacy Centre.

University a member of cooperative purchasing group

The U of A is one of nine civic institutions looking at using their combined buying power to form a cooperative purchasing group. Other members of the group are: Edmonton public schools, Catholic schools, NAIT, The City of Edmonton, Workers Compensation Board, Grant MacEwan Community College, The City of St Albert and Royal Alexandra Hospital.

The group has had one meeting (22 April) and will next meet on the U of A campus in June.

Martin Craige, Purchasing Manager, Materials Management, represents the University on the cooperative purchasing group. "We're looking at certain products to see if there's any economies to be made," he said, mentioning paper, garbage bags and washroom supplies as examples.

The group is in the process of striking a name for itself, Craige said.

EVENTS

EXHIBITIONS

BRUCE PEEL SPECIAL COLLECTIONS LIBRARY

Until 28 May

"How Can You Take Your Little Grocer's Shop So Seriously?"—an exhibition of books printed and published by Virginia and Leonard Woolf at the Hogarth Press. Hours: Monday and Friday, 8:30 am to 4:30 pm. B7 Rutherford South.

EXTENSION CENTRE GALLERY

Until 18 June

"Students' Work 1992-93"—an exhibition of works by Faculty of Extension students during the past year. Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 8:30 am to 4:30 pm; Saturday, 9 am to noon. Information: 492-3034. 2-54 University Extension Centre.

FAB GALLERY

Until 23 May

"I.D.E.A.S."—an exhibition of industrial design by students from the Department of Art and Design's Division of Design Studies. Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; closed Saturday, Monday and statutory holidays. 1-1 Fine Arts Building.

McMULLEN GALLERY

Until 3 July

"Contributions from the Shadow"—an exhibition featuring the paintings, drawings, sculpture, photography and fibre art of Albertans who have had or are still coping with a mental illness. Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm, evenings subject to availability of volunteers. Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

University bestows Graduate Student Teaching Awards

The Deans, in consultation with their Faculty's staff and students, have selected 42 teaching assistants as the recipients of the University of Alberta Graduate Student Teaching Awards. The awards are given annually by the GFC Committee for the Improvement of Teaching and Learning (CITL).

University Teaching Services administers the nomination and granting procedures.

Awarded to students who show commitment to their work and a superior command of the subject matter, the honour takes notice of those outstanding TAs who are able to read the needs of their students.

Recipients of the award received a certificate and a letter suitable for their teaching dossier, signed by President Paul Davenport and Gretchen Hess, Chair of CITL.

1993 GSTA RECIPIENTS

Faculty of Arts

Elyse Abraham
Frank Eden Avakame
Rene Bliss
Kit Brennan
Sean Drake
Peter Imoro
Maria Kozakiewicz
Karen Overbye
Sandra Souza
Erwin Warkentin

Faculty of Business

Vitor Marciano

Faculty of Education

Sally Brenton-Haden
Audrey Hodgson-Ward
Gene Krupa
Shelley Peterson
Dennis Sumara

Faculty of Engineering

Scott Juskiw
Sean Sanders
Catherine Fear

Faculty of Home Economics

Crystal Anne Dawley

Faculty of Medicine

Fernando Teixeira

Faculty of Nursing

Marilyn J Hodgins

Faculty of Pharmacy and Pharmaceutical Sciences

Majid Vakilynejad

Faculty of Physical Education and Recreation

Thomas Potter

Faculty of Rehabilitation Medicine

Shaniff Esmail

Faculty of Science

David Burgess
Cheryl R Duzenli
Hala El-Minawi
John R Kollar
Karl Larsen
Anna Lipka
Todd Lowary
Paul Lu
Alick L Macpherson
Morris Maduro
Vivian J Mozol
Douglas Muench
Christine N Pesold
Tim Terry
Michael Yi Li
Phillip Yixing Zhao
Julie Zhou

POSITIONS



The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

ACADEMIC STAFF

EXECUTIVE ASSISTANT TO THE DEAN OF NURSING

The Faculty of Nursing at the University of Alberta invites applications for the position of **Executive Assistant to the Dean**, to begin 1 July 1993. Reporting directly to the Dean, the Executive Assistant is accountable for the planning, establishment and maintenance of an administrative support system to facilitate the teaching and research functions of the Faculty. The successful applicant will have a university degree and wide experience in the field, especially in the area of budget control and preferably from the University of Alberta. S/he will possess excellent communication skills, both written and oral. Salary range: \$37,809 to \$56,709 per year.

Applications, including *curriculum vitae* and the names of three referees, should be forwarded to: Dr M J Wood, Dean, Faculty of Nursing, University of Alberta, 3-129 Clinical Sciences Building, Edmonton, Alberta T6G 2G3, before 1 June 1993.

STUDENT SERVICES OFFICER, OFFICE OF NATIVE STUDENT SERVICES

Applications are invited from qualified candidates for the above position. Appointment date as soon as possible.

The Office of Native Student Services is responsible for providing academic and support services to approximately 400 aboriginal students on campus. This number is expected to increase in light of the University's Aboriginal Student Policy which calls for all Faculties to increase their enrollment of aboriginal students. The Student Services Officer will be expected to play a major role in this growth as part of the NSS team.

Responsibilities: Reporting to the Director of Native Student Services, the incumbent will initiate, develop and provide academic, personal and cultural support services to prospective and current aboriginal students at the University of Alberta; plan and coordinate an orientation program for new and transfer students; initiate and maintain liaison activities with the Aboriginal Student Council and the aboriginal student body on campus, First Nations and Metis groups, elders and community leaders, faculty advisors, student funding agencies, service and referral units and educational institutions. A major aspect of the job will be to describe and explain the University of Alberta's policies and procedures to current and potential aboriginal students. In this context, the incumbent will have to work closely with the various University administrative and student service units.

Qualifications: Minimum of a bachelor's degree; proven experience in a similar role, working with aboriginal students within a postsecondary setting; knowledge of the University's admission and support systems and procedures; excellent interpersonal and communication skills; knowledge of aboriginal communities and agencies and sensitivity to aboriginal history and cultures, and an ability to work as part of a team. Above all, the incumbent needs to be an initiator and take on and manage tasks as they develop.

Salary range: \$31,184 to \$46,772 per year.

A letter of application, a *curriculum vitae*, and the names of three referees should be forwarded by 14 June 1993 to: The Administrative Assistant, Office of Native Student Services, University of Alberta, 124 Athabasca Hall, Edmonton, Alberta T6G 2E8. Fax: (403) 492-1674.

FACULTY SERVICE OFFICER, DEPARTMENT OF CHEMISTRY

The Department of Chemistry invites applications for a Faculty Service Officer III appointment starting 1 July 1993. This tenure-track position involves the supervision, administration, and continuing development of the laboratory components for about 1,500 students in the undergraduate organic chemistry courses (Chemistry 160, 260, 261, 263, 361, and 363). Duties include developing, in conjunction with the faculty, new experiments; maintaining the laboratory experiments and teaching techniques in these courses at the forefront of modern organic chemistry; and supervising registration, student records, and teaching assistants. Qualifications needed include a PhD in Organic Chemistry, experience in administration of laboratories for large organic chemistry courses, and evidence of innovative ideas for undergraduate organic chemistry laboratory instruction. Minimum salary: \$49,423 per year.

In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

Applications, including a *curriculum vitae*, should be sent by 31 May 1993, to: Dr B Kratochvil, Chair, Department of Chemistry, University of Alberta, Edmonton, Alberta T6G 2G2.

SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly *Employment Opportunities Bulletin*.

AWARD OPPORTUNITIES



PUBLIC LEGAL EDUCATION AWARD

An annual award of a value of \$1,000 has been created by the Sandra Garvie Memorial Fund to assist an individual to pursue a course of study or to undertake research into the library or information aspects of public legal education. The purpose of the grant is to encourage individuals to improve their knowledge of the field and, in turn, to add to the existing body of knowledge in this area. Candidates may be enrolled in a formal course of study at a community college or university, or may undertake an independent learning activity.

The award was created in honour of the late Sandra Garvie, Librarian at the Legal Resource Centre, Faculty of Extension, from 1976 to 1979, for her contribution to the field of public education.

Deadline for application: 30 June 1993.

For more information, please contact: Ms Lois Gander, Director, Legal Resource Centre, 10049 81 Avenue, Edmonton, Alberta T6E 1W7. Telephone 492-5732, fax 492-6180.

ACCOMMODATIONS AVAILABLE

VICTORIA PROPERTIES - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max, Ports West, Victoria, BC.

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. All enquiries welcome, 492-7044.

SALE - Westridge, park-like ravine location. 1 1/2 storey, 2,140', three bedrooms plus study, 3 1/2 baths. Fully renovated, many extras, \$257,000. 487-7484.

RENT - Belgravia, near University. Furnished, four bedrooms, study, fireplace, deck. \$1,200/month. September 1993 - summer 1994. 433-4439.

RENT - University area, luxurious condo. Two bedrooms, den, 2 1/2 baths, fireplace, heated garage, mostly furnished. 1 June 1993 - 1 August 1994. 439-6862, Herman Schultz, 432-0470.

RENT - Close, Grandin Station, one bedroom highrise. June possession, \$550. 479-6853/478-9060, leave message.

RENT - Deluxe, fully furnished, one bedroom condo, 18th floor river view, pool, sauna. Adjacent to campus. Available May - August. 492-3633, 433-4136.

SALE - Condo living at its best. River valley, downtown view. 9929 Saskatchewan Drive. Bright exposures, large open plan, near new condition. Florence Thompson, Spencer Realty, 435-0808.

SALE - Old Glenora, three bedrooms plus family room. Character and quality, tree-lined street. Asking \$274,000. von Borstel, Spencer Realty, 435-0808.

SUBLET - Visiting scientists. Two bedroom apartment, University area. August. Leave message, 439-8705.

RENT - North Windsor Park. Furnished, two plus two bungalow, very spacious. Hardwood floors throughout. Quiet, treed lot. Available 1 August, negotiable one year. \$1,400/month, 439-0467.

FOR SEASONAL RENT - Two bedroom cottage in Eagle Bay, BC, on shore of Shuswap Lake. Sleeps five, \$550 per week or \$600 with hot tub. No smokers, no pets, 458-2225.

SALE - Westbrook Estates, Ironwood Place. Executive attached bungalow, 1,593' plus developed basement, three baths. Bordering on the golf course, near schools, beautiful condition. Marjorie King, Spencer Realty, 435-0808/435-0395.

SALE - Greenfield. Upgraded, four bedroom split-level home facing a park. French Immersion School nearby. Immaculate condition, over 1,800'. Double garage, \$169,500. Marjorie King, Spencer Realty, 435-0808/435-0395.

RENT - Windsor Park, July to August. Fully furnished, four bedroom house. \$1,000/month, 433-7165 evenings.

SALE - Windsor Park. Super three bedroom bungalow. Fully finished basement, double detached garage, two full baths. Great southwest yard. Walk to University. Joan Lynch, Re/Max, 433-9025, 438-7000. Asking \$178,000.

SALE - Belgravia. Immaculate, upgraded, two bedroom bungalow. Gleaming hardwood

floors, gorgeous neutral carpeting. Double detached garage, fully finished basement, large lot. Asking \$184,800. Joan Lynch, Re/Max, 433-9025, 438-7000.

SALE - Windsor Park, cozy 1,198' bungalow. Super basement, hardwood on main and basement. Large master bedroom, den, three bedrooms in basement. Double garage. \$189,000. Joan Lynch, Re/Max, 433-9025, 438-7000.

RENT - Hearthstone, furnished townhome. 20 June - 1 September 1993. \$900/month. No smokers, no pets. 435-4388.

RENT - Attractive executive home, Strathearn Drive. Spacious studio, view, furnished. Sabbatical 1993 - 1994. Phone 469-4992.

RENT - Glenora. Large, bright executive home, 3,200', five bedrooms, three baths, two fireplaces, double attached garage. Quiet landscaped yard. Large main, upper floor decks. Hot tub, new kitchen, appliances. 452-4976.

ACCOMMODATIONS WANTED

LEADING PERFORMERS in Edmonton Opera's production of "My Fair Lady" are looking for accommodation, 12 June to 18 July 1993. Anyone interested in renting/boarding call Katherine Hirsh, 424-4040.

AUTOMOBILES AND OTHERS

OPTIMA IZUZU 1988 - Two door, light blue, only 27,000 km. Excellent condition, very good tires, regularly serviced. Asking \$5,500. Call G Stephenson at 492-7821 or 488-9337.

SERVICES

DONNIC WORD PROCESSING - Since 1978, specializing in theses, manuscripts, etc. 453-2769.

COMPUTERIZED LITERATURE SEARCHING - Expert information retrieval by experienced scientist. All areas. Requests accepted by phone. No red tape! Competitive rates. Satisfaction guaranteed. JL Citation Services, 487-8652.

DAVID RICHARDS CARPENTRY - Certified journeyman NAIT. Complete interior/exterior residential and commercial renovations including plumbing/electrical. References available. 436-6363.

BACK BASICS REMEDIAL THERAPY - Supplementary health care coverage. 436-8059.

MARK EHRMAN CABINET SERVICES - Custom designs or made to match existing. References available. 463-0889.

EDITING SERVICES - Letters, theses, articles, reports. Editors' Association of Alberta Hotline, 430-8291.

MITRAC MANAGEMENT - Bookkeeping for business. ACCPAC. Fast and reliable. 430-7686.

PRIORITY PET CARE - Pet sitting, house sitting, pooper scooper service, etc. Call Tracy at 448-2751.

COMPLETE DRYWALL AND INTERIOR PLASTERING SERVICES - Work by second generation tapers. Also new, unique ceiling and wall designs. New product. References. Satisfaction guaranteed, 474-8179. Restoration available on plaster.

RELAXATION AND RENEWAL SEMINAR - Learn breathing, visualization and meditation techniques to help you cope with stress. Saturday, 15 May, 1:00 - 5:00 pm, \$65. Instructor is Lia Fraser. Call 439-3323.

Please recycle
this paper



SALE: U of A/Old Strathcona Condo

Luxury; custom designed & decorated; A/C; gas fireplace; open; bright kitchen/dining; office/storage; 2 bedrooms, 2 baths; 5 appliances; low rise; elevator; 1 1/2 years old; 1158 sq. ft.; low condo fees; covered parking; \$129,900; #301, 8503 - 108 St.; (403) 439-8829 for appt.

"By Owner"

Catherine M. Fletcher D.D.S.

DENTIST

#980, 8215-112 Street
College Plaza 3
Edmonton, Alberta
T6G 2C8
439-2266

Our hours are:

Mon. 9am - 5pm
Tues.-Fri. 8am - 4pm

Recreational Ice Skating

✓ **Where?**
At the Clare Drake Arena

✓ **When?**
May 17 to June 30

✓ **Details?**
Three sessions per week
Mondays 1200 to 1300 \$2.00
Wednesdays 1200 to 1300 \$2.00
Wednesdays 1800 to 2000 \$3.50

✓ **Information?**
Call Campus Recreation at 492-5607

Colour Copying

Canon CLC 300

- Full four colour process
- Theses, Technical Reports
- Enlargements, Reductions
- O/H transparencies, posters
- Print 35mm slides, negatives
-near photo quality at 400 dpi
- Image Editing and Manipulation
- Print IBM/Mac files (PostScript)
- Cash, Indents*, MasterCard*, Visa*
(* \$10.00 minimum)

CMPA

Faculty of Education
Basement of H. T. Coutts
(Education) Library

Phone (492) 5433